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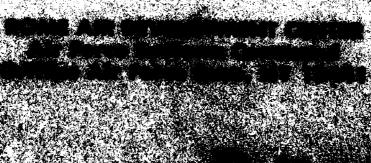


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Maintainability

This final report was prepared by the Systems Reliability and Engineering Branch of the Rome Air Development Center, Griffiss AFB NY to document the final results of an in-house study effort. The purpose was to identify reliability, maintainability, and quality assurance organizations within the government as a means of improving communication, cooperation and technology transfer.

Surveys were distributed to over 200 agencies thought to have a role in,

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these disciplines. Respondees were encouraged to add the names of others not included in the original distribution. The results, as presented, represent a first attempt at compiling such a listing. Subsequent updates will be more complete,

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PREFACE

This final report was prepared by the Systems Reliability and Engineering Branch of Rome Air Development Center, Griffiss AFB NY to document the final results of an in-house study effort. The purpose was to identify reliability, maintainability and quality assurance organizations within the government as a means of improving communication, cooperation and technology transfer.

Capt Gerald Salatino was the initial RADC Project Engineer responsible for the idea to create a guide. Mr. Preston R. MacDiarmid was the RADC Project Engineer who completed the effort. Mr. George Lyne and Mr. Richard Unkle were responsible for developing the software that produced the final results.

Other RADC contributors that enabled the successful completion of this effort were Nancy Phalen, Vincent Nivaggi and Debra Rehm.

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1.0 INTRODUCTION

Many agencies within the United States government perform functions related to reliability, maintainability and quality assurance. It was not possible to determine if there was a complete guide of these organizations available from any source. Compilation of such a list is complicated by the frequent organizational changes of government agencies as well as the transitory nature of military personnel. The RADC Systems Reliability & Engineering Branch felt there was a definite need to formulate, as complete as possible, a guide to government reliability, maintainability and quality assurance organizations in the hope of fostering more communication between agencies to share techniques and experiences as well as prevent duplication of effort. The guide would subdivide organizations by function within the reliability, maintainability and quality assurance disciplines.

2.0 APPROACH

A "Survey of Government Reliability and Maintainability Organizations" was formulated and distributed to over 200 organizations throughout government assumed to have a role in reliability, maintainability, or quality assurance. Recognizing that the initial distribution would probably not be complete, respondees were asked for potential additional distribution. Survey questions addressed R/M activities, facilities, types of equipment specialties as well as number of people and other organizational information.

Appendix A includes the survey as well as the initial distribution list. Because the "fill-in" type replies did not readily lend themselves

to automation, all responses were reviewed and put into a "multiple-choice" type format included as Appendix B. A computer program was written to alphabetize, format, and sort the responses.

3.0 RESULTS

Detailed results of agencies responding who indicated they have a significant role in reliability, maintainability, and quality assurance are included in Section 3.1 through 3.4.

These sections are tabulated as follows:

Section	<u>Agency</u>
3.1	Air Force
3.2	Army
3.3	Navy
3.4	Others

No attempt was made to assess responses to determine the degree to which the agency plays a role in a particular function or whether it has more responsibility than other organizations.

While an attempt was made to include all R/M/QA organizations, it is very difficult to be all encompassing on a first attempt. As a result, provision has been made to add additional agencies as well as to update the information on existing responses. Self addressed forms for doing so are provided in Appendix C. The initial plan is to update this guide annually.

3.1 AIR FORCE ORGANIZATIONS

AIR FORCE

Reliability/Maintainability/Quality Assurance Organizations

Organizatio Address/Chie Phone	functions R/M g/A & g/A	(b) Techniques (c) Applications (c) Applications (d) Testing (e) Standards (e) Standards	Number of People	Equipment/ System Type	EnvironmentGroundAirAirAir	A a citicité de la cité de la cit
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Reliability/Maintainability/Quality Assurance Organizations

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Reliability/Maintainability/Quality Assurance Organizations

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Mq Oklahoma City Air Logistics Center OC-ALC/MEAR Tinker AFB OK 73145 Mr. Gary E. Wall AV-735-5569,405-734-5569	*	ס	2	Aircraft & Missiles	E <	-
Product Assurance Office ESD/TOP Hanscom AFB MA OL731 Lt Col Francis Caravaglio AV-478-3231	×	Ð	•	Electronics & Avionics	⋖ ⊍	u
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Reliability Engineering Section SM-ALC/HMEAE MCCleilan AFB CA 95652 Mr. Clarence E. Howard AV-633-2865,916-643-2865		TO U	•	Comunications & Electronics	•) -

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Reliability/Maintainability/Quality Assurance Organizations

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Rose Air Developsent Center, Reliability Branch RABC/RBR	•	• • •	\$\$	Microcircuits & Semiconductor Devices	₹	1 0
Griffiss Air force Base, NY 13447 Mr. Joseph Brauer AV587-2945,315-330-2945	13441					
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3.2 ARMY ORGANIZATIONS

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Reliability/Maintainability/Quality Assurance Organizations

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Reliability/Maintainability/Quality Assurance Organizations

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Reliability/Maintainability/Quality Assurance Organizations

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Reliability/Maintainability/Quality Assurance Organizations

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3.3 NAVY ORGANIZATIONS

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Reliability/Maintainability/Quality Assurance Organizations

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Pacific Missile Test Center PATE Division, Code 1140 Pacific Missile Test Center Point Mugu CA 93042 J.M. Perkins AV-351-7846,805-982-7846		7	£	Missile & Electronic Uarfare Devices	z.	•

Reliability/Maintainability/Quality Assurance Organizations

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Reliability/Maintainability/Quality Assurance Organizations

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3.4 OTHER ORGANIZATIONS

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Reliability/Maintainability/Quality Assurance Organizations

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beputy Under Secretary of the Army SAUS-or Room 2E621 Pentagon Washington DC 20310 Mr. Walter Hollis AV-227-0366,202-697-0366		Ð -	=	All Army Equipment	€ < ⊍	-

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Reliability/Maintainability/Quality Assurance Organizations

Organization/ Address/Chief/ Phone	Functions R/H R/H Q/A E		2 d d d d d d d d d d d d d d d d d d d	Equipment/ System Type	Environment	
Airway Systems Division faa AAFO77 BOO Independence Ave, SW Washington DC 20591 Mr. Mel Yoshikami 202-426-8345		•	•		g	•
DOT/FAA Technical Center DOT/FAA AND-142 Atlantic City NJ 08405 A.R. Cioffi 609-641-8200	•	7	80	Air Traffic Control Systems	u	-
Program Assurance Division MASA, Office of the Chief Engineer Code OF Washington DC 20546 Or. Richard S. Sapp, Director 202-755-3356	ng ineer	•	0	Aeronautical Equip	₹ <	1
Program Assurance Office Bog Mass Research Center Moffett Field CA 94035 Mr. fred f. Demuth 415-965-5638	×	v	ř	We aponty	E «	-
Reliability & quality Assurance Office MASA Lewis Research Center Mail Stop 500-211 Cleveland OH 44135 Mr. John W. Gibb 216-433-4000	•	٣	6-2	Aerospace Equip	₹ < ∪	-

0 THERS

Reliability/Maintainability/Quality Assurance Organizations

Organization/ Address/Chief/ Phone	Functions R/M G/M E Q/M	(a) Policy I(b) Techniques II(c) Applications III(d) Testing III(e) Standards III(e) Standards	Number 04 People	Equipment/ System Type	EnvironmentGroundAir !Air !Air	1 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Reliability Division RASA/JSC Houston TK 77056 Rr. Joseph M. Levine 713-483-3655	-	D	\$\$	Spacecraft	=	
Systems Safety, Quality 8 Reliability Office MASA Langley Research Center Nail Stop 429 Mampton VA 23665 Mr. Walter C. Hoggard	•	v	5	Aircraft Systems	£ <	-
Sceince Mational Sceince Mational Gureau of Standards Center for Materials Science Washington BC 20234 Br. John B. Wachtman, Jr. 301-921-2891		7	300	Materials	£ <	- -
Diagnostics & Techniques Director, Mational Security Agency ATTM: T2113 Ft Meade Me 20755 Mr. Robert L. Pless 501-688-8222	# ## ## ## ## ## ## ## ## ## ## ## ## #	7	•	Electronics & Cossunications	y	-
Mational Security Agency Director, Mational Security Agency ATTM: Me34 PBOD Serveye Road Fort Meade We 20755 Mr. James B. Thoses 501-796-6501	# A J C & 8	v	0	Ground Equipment	u	u

Reliability/Maintainability/Quality Assurance Organizations

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	func tions	(c) Applications			De2019	- -
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Maintainability Engineering Branch	g Branch			Commercations		
DIRESA						
ATTN: 5231						
Ft Heade MB 20755						
Ar. Larry M. Roelofs						
AV-215-6071,101-688-6071						

4.0 Conclusions

While this report certainly does not include all government R/M/QA organizations, it represents a good first cut attempt at establishing a list of them. Only by being aware of co-existing organizations and agencies within the government can communications be fostered and R/M/QA technology be efficiently developed, transitioned and applied.

As an additional step in transitioning technology, Appendix D includes a list of Rome Air Development Center Technical Reports in the field of Reliability and Maintainability (1981-1982). Also included are government agencies from whom the reports are available.

APPENDIX A

SURVEY OF GOVERNMENT RELIABILITY AND MAINTAINABILITY ORGANIZATIONS

SURVEY OF GOVERNMENT RELIABILITY & MAINTAINABILITY ORGANIZATIONS

ORGANIZATION NAME & SYMBOL
ADDRESS
TELEPHONE NUMBER
ORGANIZATION CHIEF
NUMBER OF PEOPLE IN ORGANIZATION
R&M ACTIVITIES (Research & Development, Field Testing, Logistical
Support, Quality Assurance, Generation of Mil Standards, etc.)
DESCRIPTION OF FACILITIES (Laboratories, Computer Capabilities, Test
Facilities, etc.)
WHAT IS YOUR ORGANIZATION'S SPECIALTY (Avionics, Ground Equipment,
Mechanical Systems, Electronics, Weaponry, etc.)

WOULD YOU LIKE TO BE PUT ON A DISTRIBUTION LIST FOR ROME AIR
DEVELOPMENT CENTER R/M TECHNICAL REPORTS?
Reliability Reports
Maintainability Reports
Both
NOTE: PLEASE PLACE RADC ON YOUR DISTRIBUTION LIST FOR R/M TECHNICAL
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US Army Communications Electronics & Material Readiness Command ATTN: DRSEL-PA-S Fort Monmouth NJ 07703

Electronics Technology & Devices Laboratory ATTN: DELET-D-PA Fort Monmouth NJ 07703

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US Army Electronics R&D Command ATTN: DEDEL-CG Adelphi MD 20783

Harry Diamond Laboratories Product Assurance & Test Branch ATTN: DELHD-I-EB Adelphi MD 20783

US Army Tank-Automotive Materiel Readiness Command ATTN: DRSTA-GSEM Warren MI 48090

US Army Tank-Automotive Materiel Readiness Command ATTN: DRSTA-QA Warren MI 48090

US Army Tank-Automotive R&D Command R&M Engineering Division ATTN: DRSTA-JR Warren MI 48090

US Army Aviation R&D Command ATTN: DRDAV-EQA St. Louis MO 63166

US Army Support & Aviation Materiel Readiness Command ATTN: DRSTS-Q St. Louis MO 63120

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US Army Aviation Systems Command
PO Box 209
St. Louis MO 63166

Commanding Officer ALMSA/DRXAL St. Louis MO 63120

US Army Aviation R&D Command R&M Assessment Division ATTN: DRDAV-QR S+ Louis MO 63166

US Army Test & Evaluation Command ATTN: DRSTE-AD-M Aberdeen Proving Ground MD 21005

Commanding Officer
US Army Materiel Systems Analysis
Activity
Aberdeen Proving Ground MD 21005

US Army Armament Materiel Readiness Command ATTN: DRXSY-RM Aberdeen Proving Ground MD 21010

R&M Engineering Branch ATTN: DRDAR-QAC-R Edgewood Area Aberdeen Proving Ground MD 21010

Director
US Army TRADOC Systems Analysis
Activity
White Sands Missile Range NM 88002

Commanding Officer
US Army White Sands Missile Range
White Sands Missile Range NM 88002

Commanding Officer
US Army Management Engineering Training
Activity
Rock Island IL 61201

US Army Armament Materiel Readiness Command ATTN: DRSAR-QAL Rock Island IL 61299

Commanding Officer ATTN: DRCPM-MD-L-Q Redstone Arsenal AL 35809

US Army Meteorology & Calibration Center International Logisites Coordinator ATTN: DRSMI-MFT Redstone Arsenal AL 35809

US Army Missile R&D Command R&M Engineering Division ATTN: DEDMI-QR Redstone Arsenal AL 35809

Commanding Officer WECOM Benet Research Engineering Laboratory Watervliet NY 12189

Commanding Officer Reliability & Test Division ATTN: SARWY-QAR Watervliet NY 12189

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International Logistics Coordinator
ATTN: SARWV-QAC-L
Watervliet NY 12189

Commanding Officer Benet Weapons Laboratory ATTN: LCWSL Watervliet NY 12189

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Deputy Under Secretary of the Army for Operation Research ATTN: SAUS-OP, The Pentagon Washington DC 21310

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US Army Materiel & Mechanics Research Center ATTN: DRXMR-M2 Watertown MA 02172

US Army Mobility Equipment R&D Command Quality & Reliability Division ATTN: DRDME-TQ Fort Belvoir VA 22060

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Directorate for Quality Assurance ATTN: SESRR-Q Red River Army Depot Texarkana TX 75501

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Directorate for Quality Assurance ATTN: SESTE-QA Tooele Army Depot Tooele UT 84074

International Logistics Coordinator ATTN: SDSTE-UAS US Army Umatilla Depot Activity Hermiston OR 97838

Directorate for Quality Assurance ATTN: SDSMZ-O Mainz Army Depot APO NY 09185

Directorate for Quality Assurance ATTN: SDSNZ-OR-Q US Army Depot Activity, Ober Ramstadt APO NY 09175

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Agency
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Commanding Officer NAVSEA Code 982B1 Washington DC 20362

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Commanding Officer Naval Sea Systems Command Washington DC 20362

Commanding Officer Chief of Naval Material ATTN: MAT 0631 Washington DC 20360

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Commanding Officer Naval Coastal Support Center Crane IN 47522

Commanding Officer
David W. Taylor Naval Ship
R&D Center
Bethesda MD 20084

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Commanding Officer Naval Air Rework Facility Cherry Point NC 28533

Commanding Officer Naval Weapons Station Colts Neck NJ 07722

Commanding Officer Naval Air Engineering Certer Lakehurst NJ 08733

Commanding Officer Naval Ship Engineering Center Mechanicsburg PA 17055

Commanding Officer Naval Ship Engineering Center Philadelphia Division Philadelphia PA 19112

Commanding Officer Naval Surface Weapons Center Dahlgren VA 22448

Commanding Officer Naval Ship Engineering Center Norfolk Division Norfolk VA 23511

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Commanding Officer Naval Fleet Analysis Center Corona CA 91720

Commanding Officer Naval Calibration Laboratory PO Box 87 FPO San Francisco CA 96637

Commanding Officer Naval Pacific Missile Test Center Point Mugu CA 93042

Commanding Officer Naval Ship Weapons System Engineering Station Port Hueneme CA 93043

Commanding Officer Naval Air Rework Facility NAS - North Island San Diego CA 92135

Commanding Officer Naval Weapons Station Seal Beach CA 90740

Commanding Officer Naval Underwater Systems Center New London Laboratory New London CT 06320

Commanding Officer Naval Air Rework Facility Jacksonville FL 32212 Commanding Officer Naval Research Laboratory PO Box 8337 Orlando FL 32806

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Office of Technological Assmt. US Congress Washington DC 20510

Center for Material Science National Bureau of Standards Washington DC 20234

APPENDIX B

GUIDE TO R/M FACILITIES

GUIDE TO R/M FACILITIES

1. Calling to follow-up on their organization's response to the survey.

2.	Thank you for response.						
3.	Que	Questions.					
	a.	Do you consider your organization to have a significant role in R&M? IF NO, SKIP REST OF QUESTIONS.	O YES O NO				
	b.	How would you best describe your function?	0 R/M				
			O QA				
			0 R/M & QA				
	c.	Within these areas what do you consider your primary roles?	() Policy Development				
			(R&D)				
			O Application to Acquisit Programs	ion			
			() Testing				
			O Generation of STDS				
			() Training				
	d.	Do your facilities include:	() Labs				
			O Test Facilities				
			() Computers				
	e.	What type of equipment/systems does your work apply to?	0				
	f.	The equipment is used in which environ- ment.	0 Ground				
			() Airborne				
			O Space/Missile				
4.	Thank you for cooperation.						

5. RADC will send copy of report.

APPENDIX C

GUIDE TO GOVERNMENT R/M ORGANIZATIONS UPDATE FORM

GUIDE TO GOVERNMENT R/M ORGANIZATIONS UPDATE FORM

1.	Purpose (Check One)	Revise Current Entr Delete Complete Entr Add Entries	y ry
2.	Current E	intry		New or Revised Entry
			ORGANIZATION	
	· · · · · · · · · · · · · · · · · · ·		ADDRESS	
				
			CHIEF	
			TELEPHONE (COMMERCIAL)	
			TELEPHONE (AUTOVON)	
			NUMBER OF PEOPLE	
			R/M FUNCTION	
			QA FUNCTION	
			PRIMARY ROLES	
			(check those that apply)	
			POLICY DEVELOPMENT	
			TECHNIQUE DEVELOPMENT	
			APPLICATION TO ACQUISITION	
			TESTING	
			GENERATION OF STANDARDS	
			TRAINING	
			FACILITIES	
			(check those that apply)	
			LABORATORIES	
			TEST FACILITIES	
			COMPUTERS	
			TYPE OF SYSTEMS	
			ENVIRONMENTS	
			(check those that apply)	
			GROUND	
			AIRBORNE	
			SPACE/MISSILE	
			SEA	

APPENDIX D

RELIABILITY AND MAINTAINABILITY REPORTS

OF THE

ROME AIR DEVELOPMENT CENTER

1981 - 1982

MOST RECENT RELIABILITY AND MAINTAINABILITY REPORTS

OF THE

ROME AIR DEVELOPMENT CENTER

1981 & 1982

These documents may be obtained by the general public from:

National Technical Information Service

Department of Commerce

5285 Port Royal Road

Springfield VA 22151

(800) 336-4700

U.S. Defense Contractors may obtain copies from:

Defense Technical Information Center

Cameron Station

Alexandria VA 22314

(202) 694-6864

When ordering documents from either agency, the AD number should be cited as well as the RADC TR number. Listings with no AD number have been printed but were not assigned an AD number at the time this listing was completed.

NOTE: This listing includes only reports available to the general public.

A. EQUIPMENT/SYSTEM RELIABILITY

RADC-TR-81-87, Burn-in: Which Environmental Stress Screens Should Be Used;
D. Karam, AD-A099207

RADC-TR-81-106, "Bayesian" Reliability Tests Made Practical; A. Coppola, AD-A108150

RADC-TR-81-267, An Assessment of the Magnitude of Electromechanical Failures Occurring Within Air Force Command; IITRI, J. E. Short, AD-A108203

RADC-TR-81-318, Printed Wiring Assembly and Interconnection Reliability, IITRI, D. W. Coit, AD-All1214

RADC-TR-81-329, Correlation of Field Data With Reliability Prediction Models, IITRI, K. A. Dey, AD-All1258

RADC-81-392, Methods of Measuring and Establishing Cable Tensions in Guyed Structures, W. J. Bocchi, N. E. Forlenza, AD-All2953

RADC-TR-82-068, Combined HW/SW Reliability Models, Hughes, L. E. James, et al, AD-Al16566

RADC-TR-82-084, Least Cost Test Profile, IITRI, J. Steinkirchner, Vol I: AD-All7734, Vol II: AD-All7735

RADC-TR-82-087, Stress Screening of Electronic Hardware, Hughes, A. E. Saari, R. E. Schafer, S. J. VanDenBerg, AD-All8261

RADC-TR-82-141, R/M Analysis of Electromechanical Equipments, IITRI, J. Steinkirchner, AD-A120368

RADC-TR-82-172, RADC Thermal Guide for Reliability Engineers, Hughes, G. N. Morrison, et al, AD-All8839

RADC-TR-82-177, Reliability Parts Derating Guidelines, Boeing, S. L. Brummett, et al, AD-Al20367

RADC-TR-83-179, Sneak Analysis Application Guidelines, Boeing, D. L. Buratti, S. G. Godoy, AD-All8479L

B. MAINTAINABILITY/TESTABILITY

RADC-TR-81-220, Analysis of Built-in-Test False Alarm Conditions, Hughes, J. Malcolm, R. Highland, AD-Al08752

RADC-TR-82-189, RADC Testability Notebook, Hughes, J. Byron, L. Deight, G. Stratton, AD-All8881L

C. DEVICE RELIABILITY

RADC-TR-81-010, Electrical Characterization of Single Chip Microprocessors and Other LSI Devices; General Electric Co., B. W. Hajduk, AD-A097897

RADC-TR-81-038, Electrical and Reliability Characterization of Schottky Power Diodes; International Rectifier, M. F. Gift, AD-A099521

RADC-TR-81-072, Electrical Characterization and Specification of Peripheral Drivers, Core Drivers, and Multiplying Drivers; General Electric, J. S. Kulpinski, AD-A102841

RADC-TR-81-125, Electrical Characterization of Microprocessors Memories; Hughes Aircraft Co. Ted Y. Fujimoto, AD-A102305

RADC-81-126, Electrical Characterization of Advanced Microprocessors; General Electric, B. W. Hajduk, AD-104170

RADC-81-180, Failure Mechanism Study of GAAS Technology; Hughes Aircraft Co., Dr. L. S. Bowma, AD-A104440

RADC-TR-81-181, Reliability Investigation of Low Noise GAAS FETs, Hughes, L. S. Bowman, W. Tarn, AD-A108396

RADC-TR-81-194, Electrical Characterization of Super Schottky, IBM, R. Lawrence, AD-A108766

RADC-TR-81-315, Reliability of High-Power Pulsed Impatt Diodes, Microwave Associates, M. S. Ayyagari, J. L. Heaton, N. Jansen, AD-All0798

RADC-TR-81-350, Electrical Characterization of Motorola MC68000, IBM, J. Bailey, AD-All1491

RADC-TR-81-354, Microcircuit Cost Factors, Hughes, L. E. James, et al, AD-All1850

RADC-TR-81-373, Electrical Characterization of 64K Dynamic RAMS, IBM, E. Manzo, P. Pfeiffer, T. Cowell, AD-All3190

RADC-TR-81-382, Microcircuit Package Stress Analysis, Syracuse U., C. Libove, R. W. Perkins, K. Kokini, AD-All3594

RADC-TR-82-002, Advanced Electrical Test Techniques for LSI Microcircuits, Hughes, T. Y. Fujimoto, AD-All5845

RADC-TR-82-040, Electrical Characterization of 16K Static RAMS, GE, J. B. Schwehr, D. A. O'Conner, D. W. Mui, AD-All6111

RADC-TR-82-043, Quality Assurance Procedures for LSI, Martin Marietta, L. A. Mirth, AD-All6252

RADC-TR-82-082, Solderability Studies Using the Meniscograph, M. R. Cammarere, AD-All6115

RADC-82-093, Glass-to-Metal Seal Quality, GE, L. Zakraysek, H. Lin, AD-A117598

RADC-TR-82-133, Finite Element Analysis of Microelectronic Packages, Harris Corp., J. R. Southland, V. R. Beatty, W. J. Vitaliano, AD-All7979

D. SOFTWARE RELIABILITY

RADC-TR-81-94, FAVS Enhancements; General Research Corporation, R. A. Melton, AD-A102218

RADC-TR-81-102, Design Specification Validation; University of Southern California, R. M. Blazer, AD-A102361

RADC-TR-81-105, Specification Tools Environment Study; TRW Defense and Space Systems Group, L. Baket, et al, D. A. Richard, R. A. Vossler, AD-A102304

RADC-TR-81-127, Distributed and Decentralized Control in Fully Distributed Processing Systems; Georgia Institute of Technology, P. H. Enslow, Jr., AD-A104379

RADC-TR-81-128, Jovial (J73) Compiler Validator; TRW Defense and Space Group, R. M. Hart, M. S. McClanahan, AD-Al02386

RADC-TR-81-144, An Evaluation of Software Cost Estimating Models; General Research Corporation, R. Thibodeau, AD-A104226

RADC-TR-81-145, Analysis of IV&V Data; LOGICON, Inc., J. W. Radatz, AD-A104171

RADC-TR-81-183, Software Modelling Studies, Polytechnic Institute of New York. Vol I: AD-A105810, Vol II: AD-A105004, Vol III: AD-A106034, Vol IV: AD-A105078

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